



United States Patent and Trademark Office

APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/492,462 01.		01/27/2000	Toru Yamada	016891/0807	9897
22428	7590	03/12/2004		EXAMINER	
FOLEY.	AND LAR	DNER	ABDULSELA	ABDULSELAM, ABBAS I	
SUITE 50 3000 K S	0 TREET NW		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20007				2674	
			•	DATE MAILED: 03/12/2004	. 23

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)					
	09/492,462	YAMADA, TORU					
Office Action Summary	Examiner	Art Unit					
	Abbas I Abdulselam	2674					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl- If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 24 F	ebruary 2004.						
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) <u>1,6-8 and 12-15</u> is/are pending in the 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,6-8 and 12-15</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.						
Application Papers	,						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the bed drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. §§ 119 and 120							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domesti since a specific reference was included in the first 37 CFR 1.78. a) ☐ The translation of the foreign language pro 14) Acknowledgment is made of a claim for domesti reference was included in the first sentence of the	s have been received. s have been received in Application rity documents have been received in Application (PCT Rule 17.2(a)). of the certified copies not received priority under 35 U.S.C. § 119(ast sentence of the specification or expressional application has been received priority under 35 U.S.C. §§ 120	on No ed in this National Stage ed. e) (to a provisional application) e in an Application Data Sheet. eived. and/or 121 since a specific					
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _ 	5) D Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/24/04 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 6-8 and 12-15 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 8 and 12-15 rejected under 35 U.S.C. 103(a) as being unpatentable over Kori et al. (USPN 5914754) in view of Ishikawa et al. (USPN 6458520).

Regarding claims 1, 8 & 15, kori teaches a video-signal aspect ratio conversion apparatus that allows a wide screen picture to be transmitted and displayed by a 4:3 television without deforming the shape of the original picture. Kori also discloses that a 16:9 video picture is to be

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displayed on a 4:3 television screen with an area in the 16:9 picture being enlarged. See col. 9, lines 43-46. Kori shows in Fig. 16 (a, b, c), an original picture (16:9), transmitted picture (NTSC) and a 4:3 TV respectively. However, Kori does not specifically teach a second picture data consisting of a first black area, a second black area and an area consisting of reduces number of lines, the reduced number of lines being half a number of the first picture. On the other hand, Kori discloses a microcomputer (5) setting the aspect conversion ration in a needed size as indicated on col. 4, lines 53-65 and Fig. 1.

Therefore, it would have been obvious to one having ordinary skill in the art to utilize the microprocessor (5) the use of which includes determining aspect ratios of the input signals in order that that a proper signal is outputted. One would have been motivated in view of the suggestion that the microprocessor can be used to obtain the desired picture data with reduced number of lines.

In addition, it would have been obvious to utilize the microprocessor to set the picture data such that the number of lines is cut by half. Consequently, this particular setting would have made the picture data on 4:3 TV of Fig. 16c enlarge 3/2 times relative to the data in the setting.

Kori does not teach transferring of a second picture data to a frame data buffer, and auxiliary processing unit which inputs the second picture data from the frame data buffer. Ishikawa on the other teaches a picture-processing device (5), (Fig. 2) including a first picture processing means (61), a second picture processing means (62) as shown in Fig. 6. Ishikawa further teaches that the processing device (5) includes line buffers (50a, 50b) receiving image data from operation means (49) and transferring the data to frame memory units (51, 52). See Figs 5-6.

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Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify kori's aspect ratio conversion system to adapt Ishikawa's processing device (5) including buffer lines (50a, 50b), frame memory units (51, 52), and processing means (61, 62) as shown in Figs 5-6. One would have been motivated in view of the suggestion in Ishikawa that the processing device (5) is functionally equivalent to the desired use of frame data buffer and auxiliary processing unit. The use of picture processing device (5) helps an image formation process as taught by Ishikawa.

Regarding claims 8 and 15, Kori teaches enlargement in both horizontal and vertical directions on a 4:3 TV display that would result in offsetting of the picture data expressed by a pair of (X, Y) coordinates. See col. 8, lines 47-59 and Fig. 10. It would have been obvious to utilize the offsetting technique used in Fig. 10 to obtain the desired enlarged frame.

Regarding claim 12, see Kori's Fig. 16b and 16c.

Regarding claims 13-14, Kori discloses specifying the position of a screen and enlargement in the horizontal and vertical directions expressed by a pair of coordinates, (X, Y). See Fig. 10.

Claims 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kori et al. in view of Ishikawa and in further view of Tonomura et al. (USPN 5323235).

Regarding claims 6-7, Kori as modified has been discussed above. However, Kori does not disclose the picture data compressed by MPEG format and interlace scanning format.

Tonomura on the other hand teaches aspect ratio converting portion (36) including compression controller (43), which determines compression ratio. See col. 15, lines 27-29 and Fig. 6. Further,

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Tonomura discloses scanning period of a given picture with respect to compression process. See the abstract.

It would have been obvious to further modify Kori's method of aspect ratio conversion to adapt Tonomura's compression controller. One would have been motivated in view of the suggestion in Tonomura that the compression controller (43) as utilized in Fig. 6 provides the desired data compression. The use of compression controller helps function aspect ratio conversion apparatus as taught by Tonomura.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following art is cited for further reference.

U.S. Pat. No. 5,739,867 to Eglit

5. Any inquiry concerning this communication or earlier communication from the examiner should be directed to **Abbas Abdulselam** whose telephone number is (703) 305-8591. The examiner can normally be reached on Monday through Friday (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached at (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of patents and Trademarks

Washington, D.C. 20231

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or faxed to:

(703) 872-9314

Hand delivered responses should be brought to Crystal Park II, Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 2600 customer Service office whose telephone number is (703) 306-0377.

Abbas Abdulselam

Examiner

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March 6, 2004

XIAO WU
PRIMARY EXAMINER